Sheet 1

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of |2

Complete if Known Application Number 10/635,720 Filing Date August 6, 2003 Shinichiro KAWANO et al. First Named Inventor Art Unit 2834 Jones, Judson **Examiner Name** MATS:027A Attorney Docket Number

Examiner initials*	Cite No. ¹	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
		Number-Kind Code ² (F khown)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
	Α	^{US-} 5,751,075	05-12-1998	KWON et al.	
-		US-			
		us-			
		US-			
		US-			
		นร-			FAX RECEIVED
,		U\$.			
		US-			AUG 2 5 2005
* 11-1		US-			MOG NO COOL
		US-			OFFICE OF PETITIONS
		US-			WITTOL OF TELL
		UŞ.			
		US			
		US-			
· 		US-			
		US-			

		FORE	IGN PATENT DOCL	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Oate	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ "Number ⁴ "Kind Code ⁵ (# known)	MM-DD-YYYY		Or Relevant Figures Appear	T
	В	JP 62296758 A	12-24-1987	SEIKO EPSON	Abstract only	
					•	
						<u> </u>
						L
				1		1

Examiner Signature	Date Considered	

EXAMINER: Initial it reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 'Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST, 16 if possible, Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete. including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Subetiti	ite far form 1449/PTO			Complete If Known			
	de la tom (42)			Application Number	Shinichiro KAWANO et		
INF	ORMATION	DIS	SCLOSURE	Filing Date	August 6, 2003		
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Shinichiro KAWANO et al.		
	(Use as many she		naaa aaa nii	Art Unit	2834		
	(One as many site		recessary,	Examiner Name	Jones, Judson		
Sheet	2	of	2	Attorney Docket Number	MATS:027A		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	С	Relevant portion of the Supplementary European Search Report	
		FAX RECEIVED	
		AUG 2 5 2005	
		OFFICE OF PETITIONS	

Examiner	Date	
Signature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique distinct designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached. This collection of Information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Aloxandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER

62296758

PUBLICATION DATE

24-12-87

APPLICATION DATE

APPLICATION NUMBER

61137616

13-06-86

APPLICANT: SEIKO EPSON CORP;

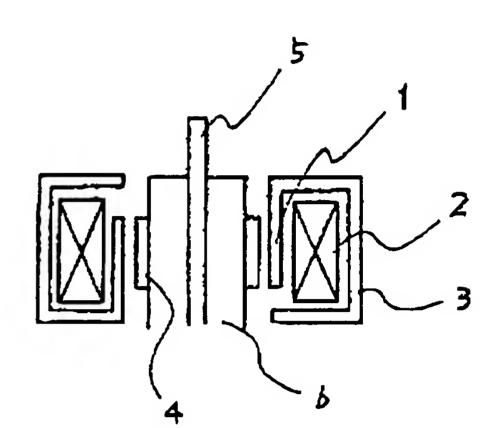
INVENTOR: TOMITA TADAHARU;

INT.CL.

: H02K 37/00 H02K 1/02

TITLE

: STEP MOTOR



ABSTRACT:

PURPOSE: To improve effective permeability in a high frequency domain by using a composite material consisting of powder ferromagnetic material, resin and so on for e sinking comb and a yoke.

CONSTITUTION: Atomized iron powder of average particle diameter 200µ is treated by silane coupling, dried and heated to improve its adhesion, and thereafter kneaded with 10 volume percent epoxy resin to be granulated into particles of diameter 0.2-1mm. These granules are packed into a press die for pressing after their removal from the die, cured at 150°C to be assembled into a sinking comb 1 and a yoke 3. A thickness of plate material of the sinking comb 1 and yoke 3 used in a PM-type step motor is 1mm or thereabout and said plate is composed of powder composite material of diameter about 0.1mm. As a result, an eddy current loss can be reduced to to about 10-5 of the former one.

COPYRIGHT: (C)1987,JPO&Japio



P.B.5818 – Patentlaan 2 2280 HV Aljswijk (ZH) 3 +31 70 340 2040 TX 31851 opo nl FAX +31 70 340 3016 Europäisches Patentamt

ROSSI

Zweigstelie In Den Haag Recherchenabtellung European Patent Office

Branch at The Hague Search division Office européen des brevets

Département à La Haye Division de la recherche

Grünecker, Kinkeldey, Stockmair & Schwanhäusser Anwaltssozietät Maximilianstrasse 58 80538 München ALLEMAGNE PRINTEDERS, EMELOEV, STOROWARD AND ACTES PRINTED THAT

22 Juni 2005

PROTEST AND ACTES PRINTED

PROTEST AND ACTES PRINTED

EMERICAN ACTES PRINTED

Datum/Date 22.06.05

Zeichen/Ref./Réf.

EP20281-50/kg

Anmeldung Nr./Application No./Demando nº./Patent Nr./Patent No./Brevet nº.

00917295.8-1528-JP0002382

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 00 91 7295

	DOCUMENTS CONSID	ERED TO BE RELEVA	VT	
Category	Citation of document with in of relevant pass	idication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Inlci.7)
X	US 5 751 075 A (KW0 12 May 1998 (1998-0 * column 2, line 59 * figures 1A-5 *		*	H02K33/16
	PATENT ABSTRACTS OF vol. 012, no. 196 (197 June 1988 (1988-06 & JP 62 296758 A (SI 24 December 1987 (1988-06 * abstract *	E-618), 6-07) EIKO EPSON CORP),	18	TECHNICAL FIELDS SEARCHED (Int.Cl.7) H02K
	The supplementary search report set of claims valid and evailable at			
	Berlin	9 June 2005	[Sier, P
X : partic Y : partic docum A : techn O : non-	TEGORY OF CITED DOCUMENTS ularly relevant if taken alone ularly relevant if combined with anothe nam of the same category ological background written disclosure nediate document	E : darlier pate after the fifir D : document of L : document of	inciple underlying the Im nt document, but oublist	vention ned on, or

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 91 7295

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office Is In no way liable for these particulars which are merely given for the purpose of information.

09-06-2005

Patent document cited in search repo		Publication date		Patent family member(s)		Publication date
US 5751075	A	12 - 05-1998	KR BR CN IT JP JP	206762 9605555 1156917 MI962337 2796529 9172764	A A ,C A1 B2	01-07-1999 18-08-1998 13-08-1998 12-05-1998 10-09-1998 30-06-1997
JP 62296758	Α	24-12-1987	NONE			·~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~